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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/809,142	03/15/2001	Eric J. Horvitz	MS171139.1	5357
27195	7590	11/29/2006	EXAMINER	
AMIN. TUROCY & CALVIN, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET CLEVELAND, OH 44114			STRANGE, AARON N	
		ART UNIT	PAPER NUMBER	
			2153	

DATE MAILED: 11/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/809,142	HORVITZ, ERIC J.
	Examiner	Art Unit
	Aaron Strange	2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 18 August 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-43 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 38 is/are allowed.  
 6) Claim(s) 1-37 and 39-43 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_ .  
 5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

## DETAILED ACTION

### ***Response to Arguments***

1. Applicant's arguments filed 7/19/06 have been fully considered but they are not persuasive.
2. Applicant's arguments, see page 13 of remarks filed 7/19/06, with respect to claim 38 have been fully considered and are persuasive. The rejection of that claim has been withdrawn.
3. With regard to claim 1, and Applicant's assertion that Theimer does not teach or suggest "determining an expected utility associated with the communication, the expected utility is based at least in part on the subset of the communication modalities and the first and second communication data sets", the Examiner respectfully disagrees. Theimer discloses determining an expected utility (determine if the connection is acceptable) based on the preferences of the users (at least Col 27, Line 32 to Col 28, Line 13).

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-20,22,23,25-39 and 41-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Theimer et al. (US 5,812,865).

6. With regard to claim 1, Theimer discloses a system for facilitating communication between entities, comprising:

one or more communication modalities (video, telephone, etc) that respectively provide for communication between at least two entities (at least Col 27, Lines 42-46), and

a communication manager that analyzes a first communication data set associated with a first entity (user A preferences) and a second communication data set associated with a second entity (user B preferences) (at least Col 27, Lines 37-41 and Col 27, Line 60 to Col 28, Line 8), where at least one of the first entity and the second entity is a human being (Col 7, Lines 22-24), the communication manager identifying a subset of the one or more communication modalities based at least in part on analysis of the first and second communication data sets utilizing at least one of reasoning under uncertainty and deterministic processing (possible communication modalities are identified) (at least Col 60-62), and the communication manager establishing a communication between the entities via at least one modality of the subset (at least Col 28, Lines 9-13) based at least in part upon determining an expected utility associated with the communication ("best" connection is chosen) (at least Col 27, Line 60 to Col 28, Line 8), the expected utility is based at least in part on the subset of the communication

modalities and the first and second communication data sets (only a matning modality will be chosen) (at least Col 28, Lines 5-8).

7. With regard to claim 2, Theimer further discloses that the one or more communication modalities comprise at least one of: telephone modalities, facsimile modalities, computer modalities, paging modalities and personal modalities (at least Col 27, Lines 41-46).

8. With regard to claim 3, Theimer further discloses that the telephone modalities comprise at least one of: POTS telephony, cellular telephony, satellite telephony and Internet telephony (at least Col 6, Lines 30-32).

9. With regard to claim 4, Theimer further discloses that the computer modalities comprise at least one of: email, collaborative editing, instant messaging, network meetings, calendaring and home networking devices (at least Col 24, Lines 59-62).

10. With regard to claim 5, Theimer further discloses that the personal modalities comprise at least one of: videoconferencing, messengering and face-to-face meeting (at least Col 27, Line 60 to Col 28, Line 8).

11. With regard to claim 6, Theimer further discloses that establishing a communication includes at least one of scheduling one or more communications,

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calendaring one or more communications, displaying information concerning one or more possible communication modalities available for communication between the entities and initiating one or more communications (at least Col 28, Lines 9-13).

12. With regard to claim 7, Theimer further discloses that the first communication data set comprises a set of contactor context data (available media devices) and a set of contactor preference (preferred connection type) data (at least Col 27, Lines 37-46).

13. With regard to claim 8, Theimer further discloses that the second communication data set comprises a set of contactee context data (available media devices) and a set of contactor preference data (preferred connection types) (at least Col 27, Lines 53-59).

14. With regard to claim 9, Theimer further discloses that the communication manager comprises:

a preference resolver adapted to analyze the set of contactee preference data and the set of contactor preference data and produces a resolved preference data (determine "best" connection type)(at least Col 27, Line 60 to Col 28, Line 8);

a context analyzer adapted to analyze the set of contactee context data and the set of contactor context data and produce an analyzed context data (determine available media devices at both locations) (at least Col 27, Lines 35-41 and 53-59);

a channel analyzer adapted to analyze the possible communication channels between a contactor and a contactee and produce a communication channel data (determine available connection types) (at least Col 27, Lines 60-62); and a communication establisher adapted to establish a communication between the contactor and the contactee based, at least in part, on the resolved preference data, the analyzed context data, entity selection data and the communication channel data (initiate connection over the "best" communication path) (at least Col 27, Line 65 to Col 28, Line 13).

15. With regard to claim 10, Theimer further discloses that the set of contactee context data comprises contactee hardware data (available media devices), contactee software data (available connection types) and contactee observed data (user location/user preferences) (at least Col 27, Lines 53-60).

16. With regard to claim 11, Theimer further discloses that the set of contactor context data comprises contactor hardware data (available media devices), contactor software data (available connection types) and contactor observed data (acceptable connection types) (at least Col 27, Lines 35-41).

17. With regard to claim 12, Theimer further discloses that the contactee hardware data comprises at least one of capacity data, bandwidth data, availability data, status

data, cost data, revision data and hardware metadata (available devices)(at least Col 27, Lines 53-60).

18. With regard to claim 13, Theimer further discloses that the contactee software data comprises at least one of capacity data, version data, cost data and capability data (available connection types) (at least Col 27, Lines 53-60).

19. With regard to claim 14, Theimer further discloses that the contactee observed data comprises at least one of time of the day data, current activity data, current task data, calendar data, location data, contactor to contactee history data, attentional status data, contactor class data, environment data and communication needs data (user location/user preferences, etc.) (at least Col 27, Lines 53-60).

20. With regard to claim 15, Theimer further discloses that the contactee preference data comprises at least one of contactee preference hardware data, contactee preference software data (preferred connection types)(at least Col 27, Lines 53-59), contactee preference time of the day data, contactee preference calendar data (disable messages during meeting) (at least Col 13, Lines 25-31), contactee preference contactor priority list data and contactee preference special needs data.

21. With regard to claim 16, Theimer further discloses that the contactor hardware data comprises at least one of capacity data, bandwidth data, availability data (available

media devices), status data, cost data, revision data and hardware metadata (at least Col 27, Lines 35-41).

22. With regard to claim 17, Theimer further discloses that the contactor software data comprises at least one of capacity data, version data, cost data and capability data (available connection types) (at least Col 27, Lines 35-41).

23. With regard to claim 18, Theimer further discloses that the contactor observed data comprises at least one of time of the day data, current activity data, current task data, calendar data, location data, contactor to contactee history data, attentional status data, contactee class data, environment data and communication needs data (acceptable connection types) (at least Col 27, Lines 37-46).

24. With regard to claim 19, Theimer further discloses that the contactor preference data comprises at least one of contactor preference hardware data, contactor preference software data (preferred connection types), contactor preference time of the day data, contactor preference calendar data and contactor preference special needs data (at least Col 27, Lines 37-46).

25. With regard to claim 20, Theimer further discloses that the communication manager is further operable to perform at least one of the preference resolver inferring probabilities for unspecified preference, the context analyzer is operable to infer

probabilities for context data and the channel analyzer is operable to infer probabilities for channel data ("best" connection is established based on combined user preferences) (at least Col 27, Line 62 to Col 28, Line 8).

26. Claims 22,23,25-37,39,41,42 and 43 are rejected under the same rationale as claims 1-20, since they recite substantially identical subject matter. Any differences between the claims do not result in patentably distinct claims and all of the limitations are taught by the above cited art.

***Allowable Subject Matter***

27. Claim 38 is allowed.

***Conclusion***

28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Strange whose telephone number is 571-272-3959. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AS  
11/21/2006



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